

#### Presenter

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# PredPol

Predict Crime in Real Time™ March 2013

## Predictive Policing is...

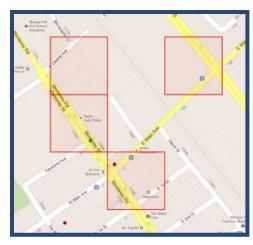
- Software technology that predicts the time and place of future crimes
- High level mathematics combined with experienced crime analysts and veteran police using their own knowledge and experience
- More than "rear view mirror" policing that simply maps past crime

## Deployment to Officers in the Field

- Lists of Maps of predictions in 500' x 500' boxes
- Distributed at start of shift or on-demand
- 'Get in the Box' to disrupt crime during patrols



LAPD Foothill Division Deployment starting 7 Nov 11



Santa Cruz PD Deployment starting 1 Jul 11



## Predictive Policing in Santa Cruz, CA

B4 THURSDAY, JUNE 21, 2012

SANTA CRUZ

### Pair arrested with burglary tools

A man and a woman were arrested Wednesday morning after police found them snooping around parked cars.

About 12:50 a.m., an officer in a patrol car went to Maple and Washington streets on a predictive policing check, said Santa Cruz police spokesman Zach Friend.

The officer spotted a man and a woman in an apartment complex parking lot

according Hernan in jail Wed

Teens

Two 15-y 14-year-old Monday at \$10,000 in o bowling al About 6 mer Cabr



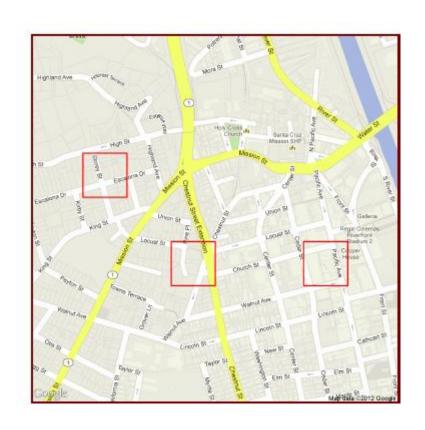
A man and a woman were arrested... on a predictive policing check.

**Zach Friend** 

Santa Cruz Police spokesman Thursday, June 21, 2012



## Predictive Policing in Santa Cruz, CA



**1**9%

Santa Cruz burglaries 1<sup>st</sup> half 2011 vs. 1<sup>st</sup> half 2012

## Predictive Policing in Los Angeles, CA



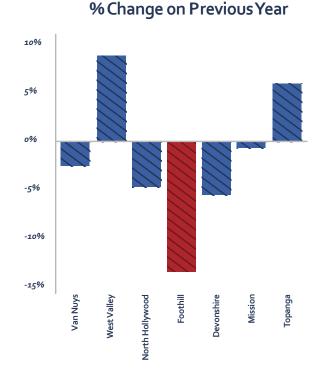


130 square miles 1.3 million people

## Predictive Policing in Los Angeles, CA

#### How do we know it worked in LA?

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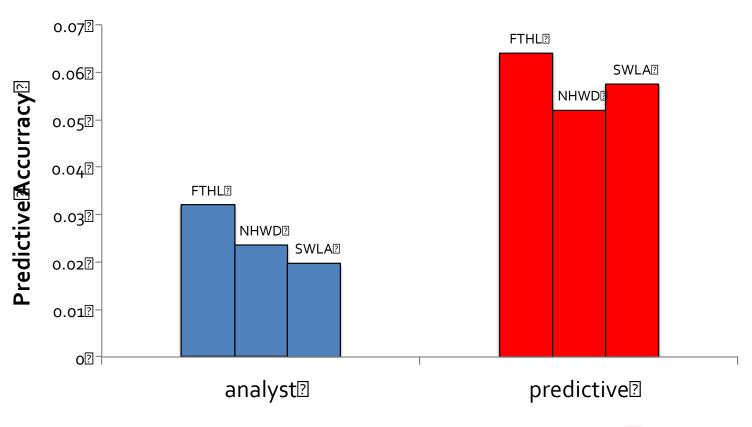
LA Foothill Division



Rest of LA

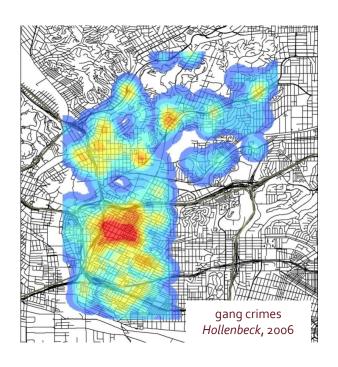


## LAPD Deployment



## Predictive Policing in Los Angeles, CA

### What's behind this technology?

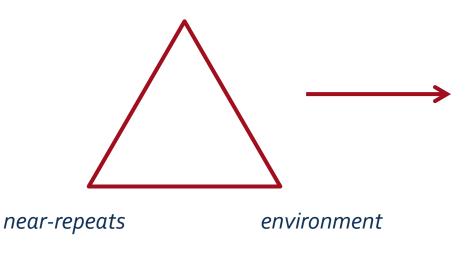


I'm not going to get more money. I'm not going to get more cops. I have to be better at using what I have, and that's what predictive policing is about...

Charlie Beck
Los Angeles Police Chief
CBS Evening News

### The Science

### repeat victimization

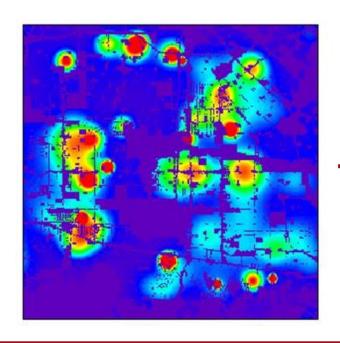


$$\frac{\partial B}{\partial t} = \frac{\eta D}{4} \nabla^2 B - \omega B + \theta \omega \delta$$

offender behavior

mathematical model

## **Making Predictive Policing Practical**





tactical ambiguity

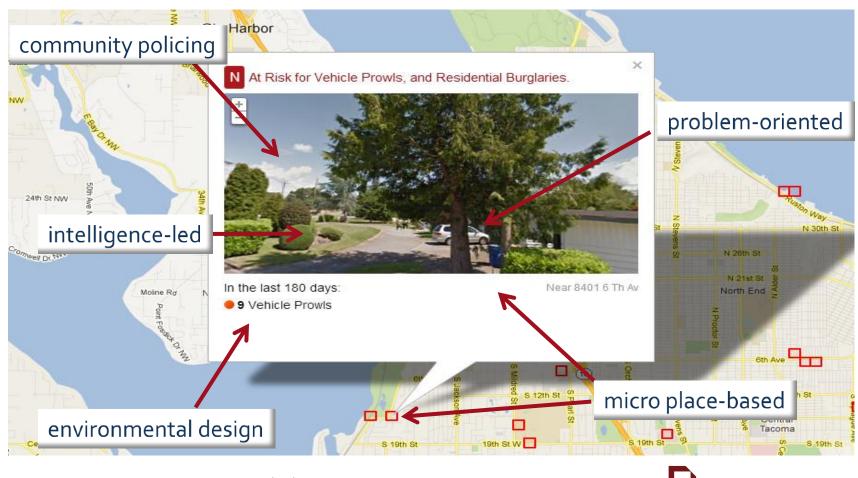
tactical clarity



## Day-to-Day Use



### 'Get in the Box'



## **PredPol Savings**

Heaton, Paul. 2010. Hidden in Plain Sight: What Costs-of-Crime Research Can Tell Us About Investing in Police: RAND.

### **PredPol**

### is **NOT**

- A replacement for knowledge, skills & experience
- Profiling of individuals
- Probable cause
- New hardware or new hires

### IS

- More efficient & effective policing
- Assigning probabilities
   of crime in space and time
- Focal points for effective use of police resources
- Use of existing crime data



## **PredPol Deployments**

### **Current & Near Term Deployments**

- Los Angeles, CA
- Santa Cruz, CA
- Morgan Hill, CA
- Fairfield, CA
- Atlanta, GA
- Los Gatos/Campbell, CA
- Tacoma, WA
- Salinas, CA
- Alhambra, CA
- Lansing, MI

- Seattle, WA
- San Francisco, CA
- Elgin, IL
- UK, Mexico & Australia
- Columbia, SC
- Manhattan, KS
- San Jose, CA (traffic)
- Palo Alto/Mountain View, CA
- Milpitas, CA



### Overview

- 1. Discounted annual fee (unlimited usage)
- 2. No new hires & no new hardware while freeing up crime analysts to do more
- 3. Training for administrators and users at no extra cost. Fast and easy
- 4. Deploys in weeks (or sooner)
- 5. Predictions can be tailored to match a jurisdiction's service districts
- 6. Designed for agencies of all sizes.
- 7. Developing Gun Violence, Mobile, and Traffic Predictions
- 8. Eligible for JAG, DHS, and Asset Forfeiture Funding

### **Press**



#### **Associated Press:**

Sci-fi policing: predicting crime before it occurs

July 1, 2012



### Time Magazine:

Pre-emptive Policing
November 28, 2011



### **CBS: Evening News**

"Predictive Policing" making LA safer



### **NBC: Nightly News**

Santa Cruz PD's Predictive Policing Program August 22, 2011



#### **NY Times:**

Sending the Police Before There's a Crime



### **ABC: World News Tonight**

Santa Cruz Police Using Computer Program to Predict, Prevent Crime August 18, 2011



## PredPol

Predict Crime in Real Time™



Thank You!